FILE 'BIOSIS, MEDLINE, EMBASE, EMBAL, SCISEARCH, BIOTECHDS, CAPLUS'
ENTERED AT 16:20:27 ON 05 AUG 2003
L1   89876 S (EBV OR (EPSTEIN (1W) BARR (1W) VIRUS?))
L2   3957 S L1 AND VECTOR?
L3   436 S L2 AND (PCR OR (AMPLIF?))
L4   75 S L3 AND (PRIMER?)
L5   56 DUP REM L4 (19 DUPLICATES REMOVED)
L6   5 S L5 AND PY<1993
L6   ANSWER 3 OF 5 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI
on STN
ACCESSION NUMBER: 1992-03039 BIOTECHDS
TITLE: A general and fast method to generate multiple site directed
            mutations;
               site-directed mutagenesis method using the polymerase
               chain reaction
AUTHOR: Mikaelian I; *Sergeant A
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SOURCE: Nucleic Acids Res.; (1992) 20, 2, 376
            CODEN: NARHAD
DOCUMENT TYPE: Journal
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SO   Nucleic Acids Res.; (1992 20, 2, 376
        CODEN: NARHAD

AB. . . method to generate multiple site-directed mutations (deletion,
    insertion or substitution) in a given DNA fragment. The method required
    3 universal primers for the vector, and only 1
    specific primer for each mutation. The method consisted of 2
    successive rounds of polymerase chain reaction (PCR). The 1st
    round consisted of 2 simultaneous PCRs, with primers (1 and 2)
    homologous to the vector, but with a mismatched 3'-end in
    primer 2. The 2nd PCR was done with primer 3
    and primer M (with a mutation). Amplified fragments
    were purified, mixed and subjected to another PCR round with
    external primers 1 and 3 (with no amplification of
    parental and hybrid B fragments). Only hybrid A was amplified,
    and since the 3'-end of primer 2 was not complementary to the
    DNA, only the mutated strand was amplified. The
    amplified fragment could then be cleaved and ligated into a
    vector. The method was used to generate 10 different deletion
    and substitution mutants in Epstein-Barr
    virus transcription factor EB1 or Z, with a routine efficiency of
    90%. (3 ref)

L Number	Hits	Search Text	DB	Time stamp
1	424	(EBV (epstein adj1 barr adj1 virus)) SAME (detection)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/05 17:02
2	217	((EBV (epstein adj1 barr adj1 virus)) SAME (detection)) and (vector)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/05 17:02
3	190	(((EBV (epstein adj1 barr adj1 virus)) SAME (detection)) and (vector)) and (pcr or amplifi$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/05 17:02
4	154	((((EBV (epstein adj1 barr adj1 virus)) SAME (detection)) and (vector)) and (pcr or amplifi$7)) and primer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/05 17:03
5	12	(((((EBV (epstein adj1 barr adj1 virus)) SAME (detection)) and (vector)) and (pcr or amplifi$7)) and primer) and (EBV (epstein adj1 barr adj1 virus)).ti.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/05 17:03

L Number	Hits	Search Text	DB	Time stamp
1	12	(EBV (epstein adj1 barr adj1 virus)) and ((vca adj1 p18) (vca adj1 p40))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/04 15:42
2	10	((EBV (epstein adj1 barr adj1 virus)) and ((vca adj1 p18) (vca adj1 p40))) and (bfrf3 bdrf1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/04 15:42
3	17	(EBV (epstein adj1 barr adj1 virus)) and (BFRF3 BdRF1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/04 15:42
4	7	((EBV (epstein adj1 barr adj1 virus)) and (BFRF3 BdRF1)) not (((EBV (epstein adj1 barr adj1 virus)) and ((vca adj1 p18) (vca adj1 p40))) and (bfrf3 bdrf1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/08/04 15:43